

FIG. 1A PRIOR ART

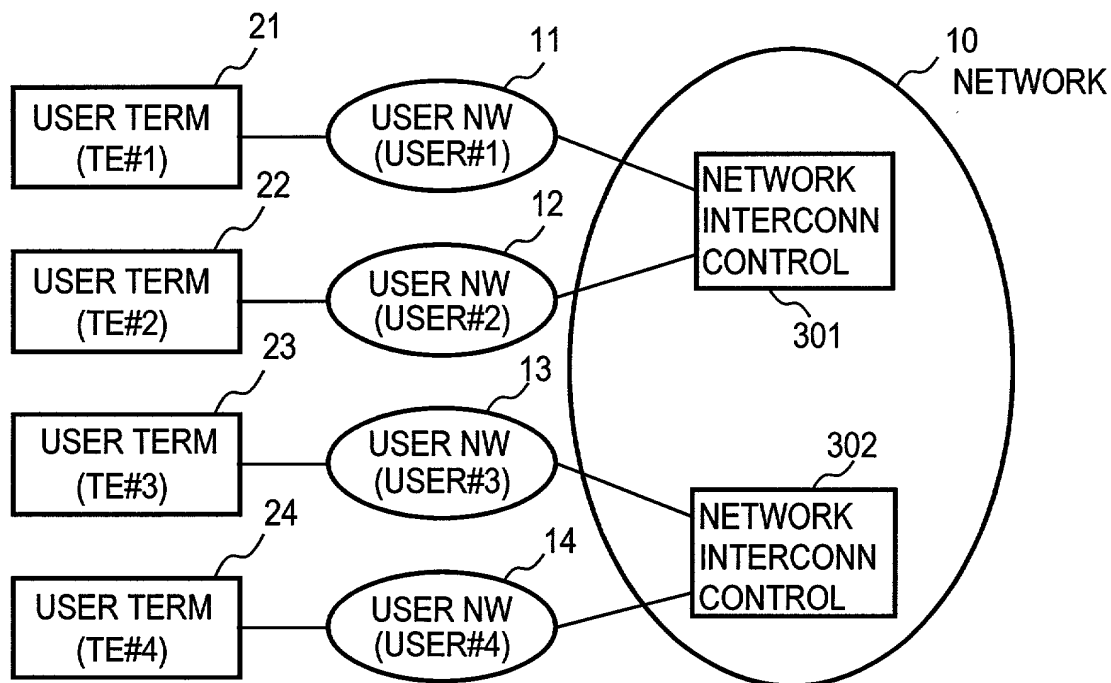


FIG. 1B PRIOR ART

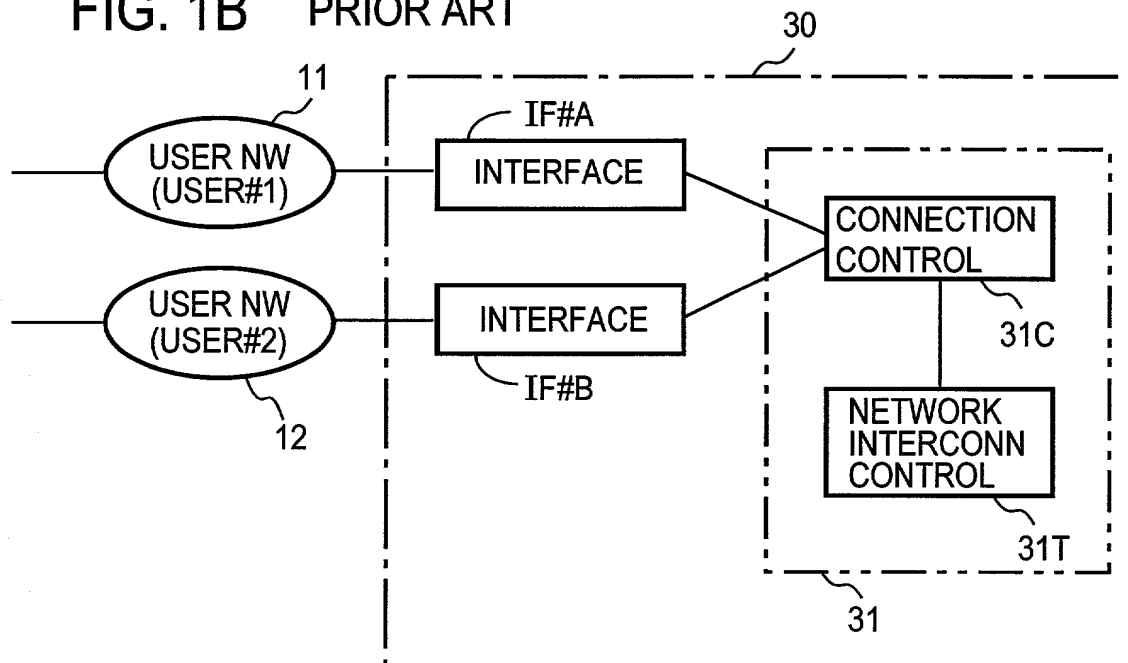


FIG. 2

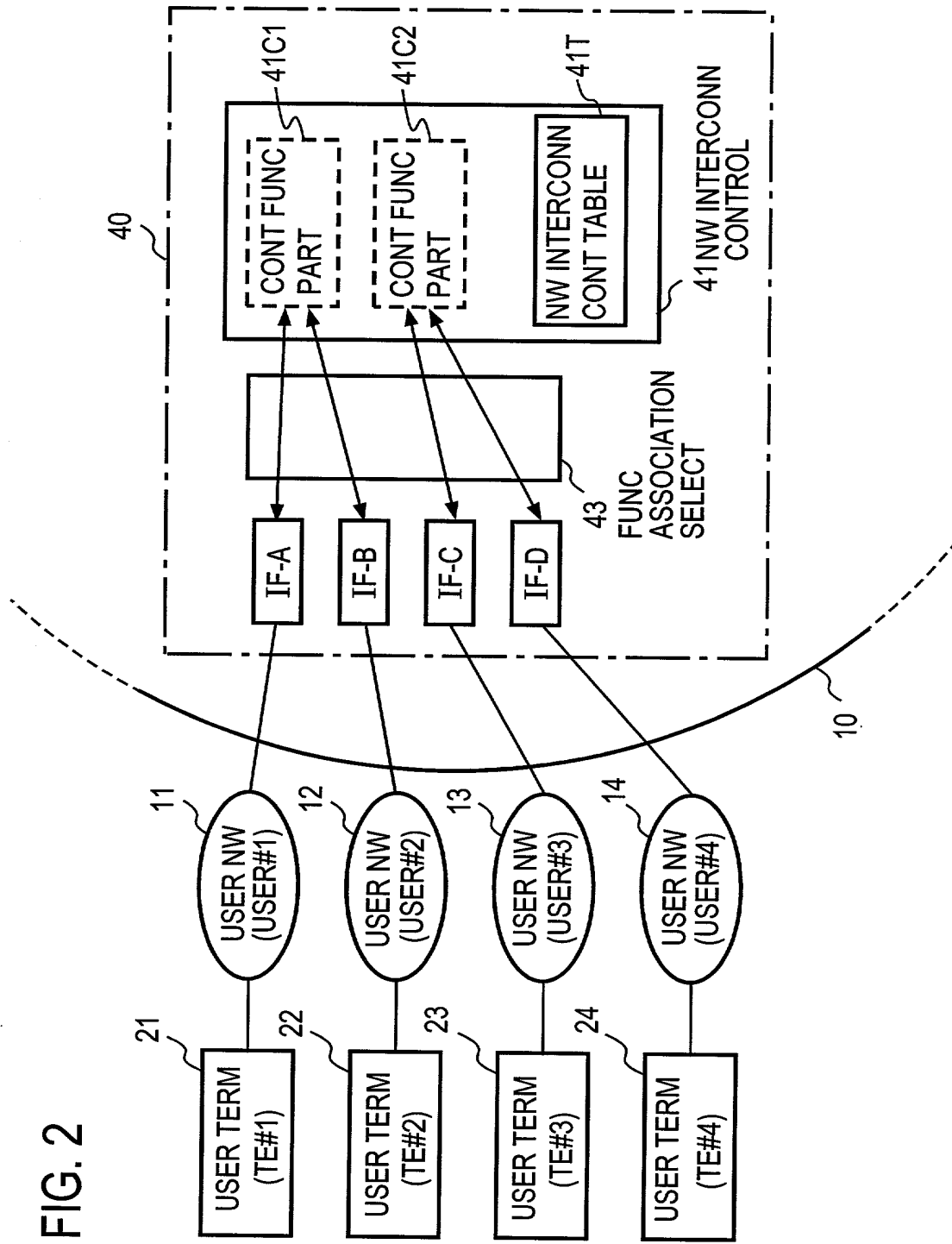


FIG. 3

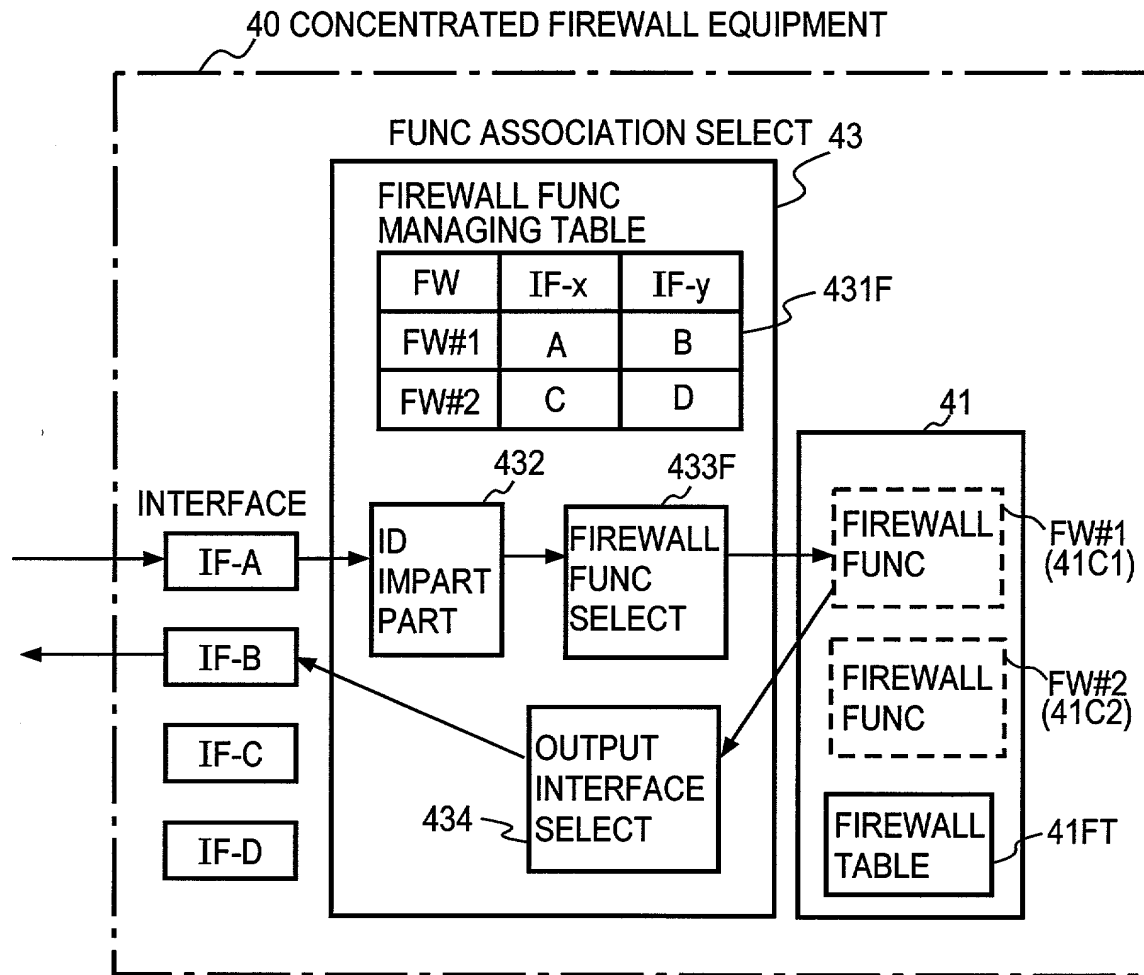


FIG. 4

FIREWALL FUNC ID	INTERFACE IF-x	INTERFACE IF-y
FW#1	A(USER#1)	B(USER#2)
FW#2	C(USER#3)	D(USER#4)
⋮		⋮

431F

FIG. 5

FW FUNC ID	DIRECTION	SENDER TERMINAL ADDRESS	RECEIVER TERMINAL ADDRESS	APPLICATIONS	CONN
FW#1	x→y	a	c	AA	OK
FW#1	x→y	b	d	BB	NO
FW#1	y→x	c	a	BB	OK
FW#1	y→x	d	b	AA	OK
FW#2	x→y	a	c	BB	NO
FW#2	x→y	b	d	BB	OK
FW#2	y→x	c	a	AA	OK
⋮	⋮	⋮	⋮	⋮	⋮

41FT

FIG. 4



FIG. 7

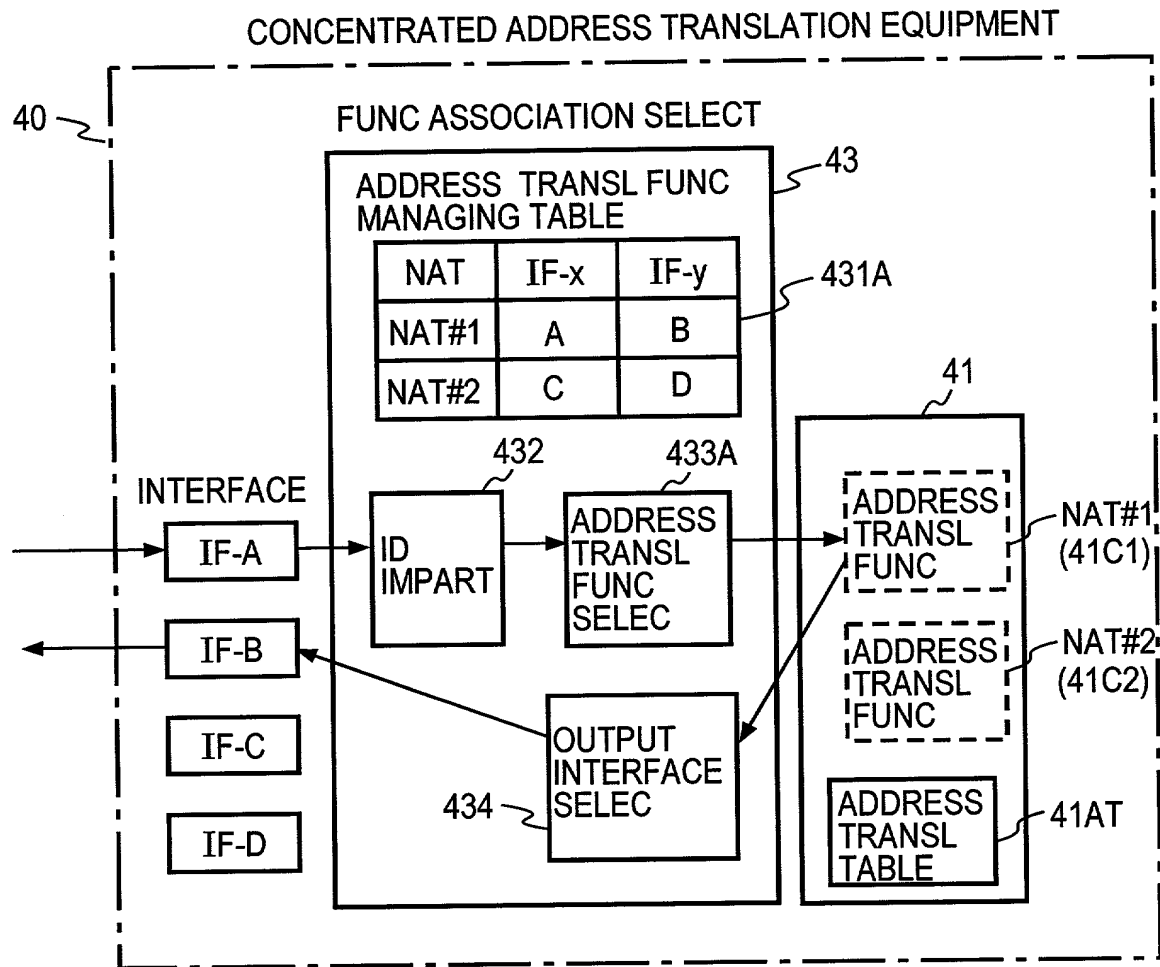


FIG. 8

ADDRESS TRANSL FUNC ID	INTERFACE IF-x	INTERFACE IF-y
NAT#1	A(USER#1)	B(USER#2)
NAT#2	C(USER#3)	D(USER#4)
⋮		⋮

431A

FIG. 9

NAT FUNC ID	DIRECTION	ADDRESS BEFORE TRANSLATION	ADDRESS AFTER TRANSLATION	TRANSLATION MODE
NAT#1	x→y	a, b	aa1	DYNAMIC
NAT#1	x→y	c, d	cc1	DYNAMIC
NAT#1	x→y	e	ee1	FIXED
NAT#1	x→y	f	ff1	FIXED
NAT#2	x→y	a, b	aa2	DYNAMIC
NAT#2	x→y	c, d	cc2	DYNAMIC
NAT#2	x→y	e	ee2	FIXED
⋮	⋮	⋮	⋮	⋮

41AT

FIG. 10

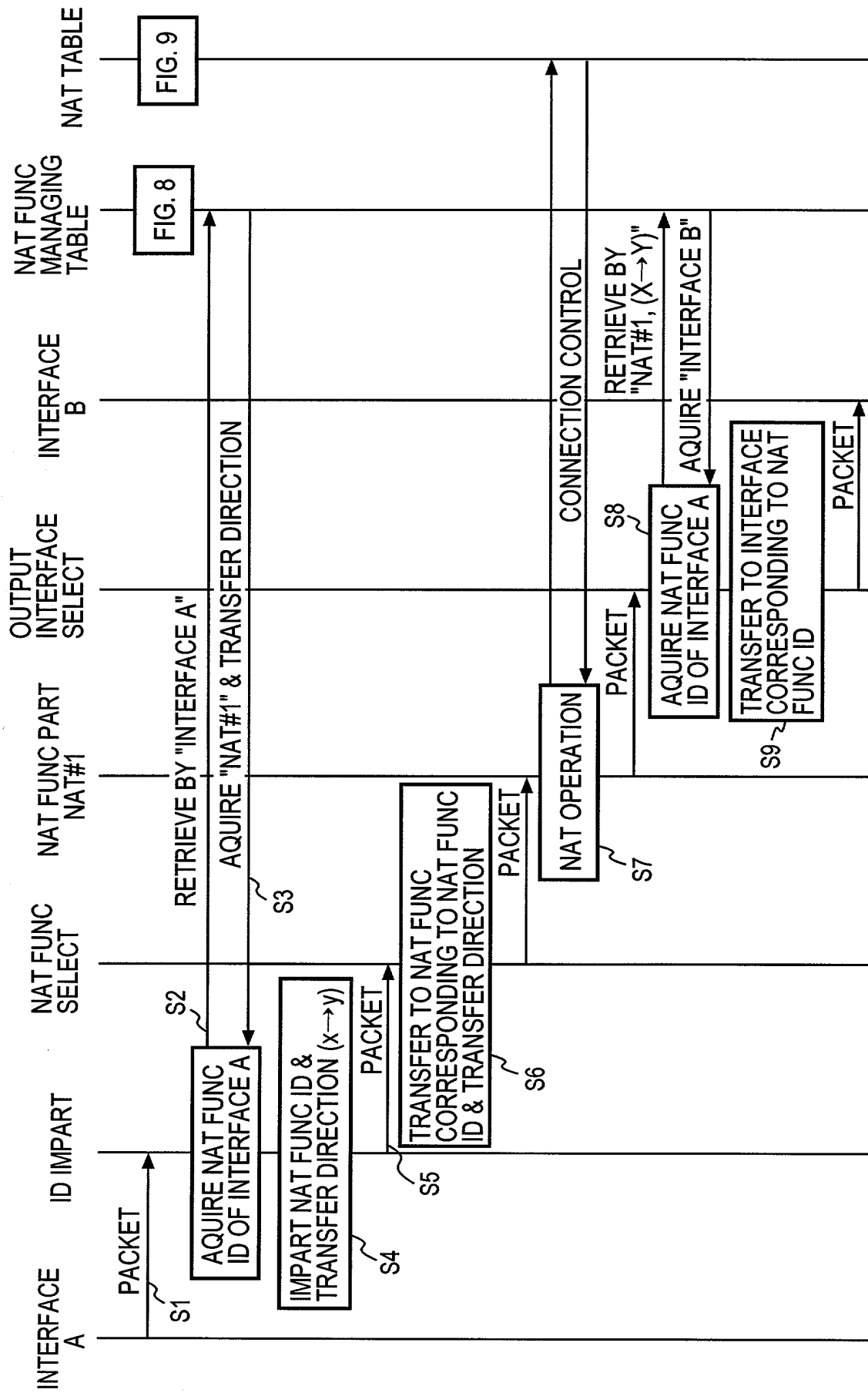


FIG. 10

FIG. 11

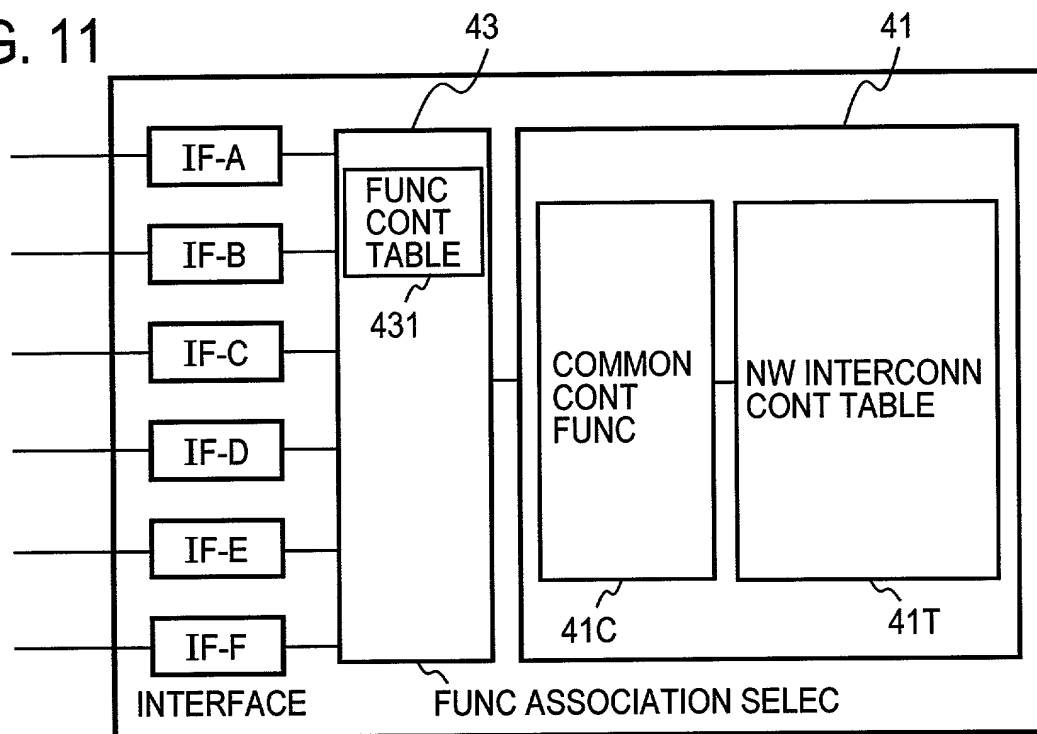


FIG. 12

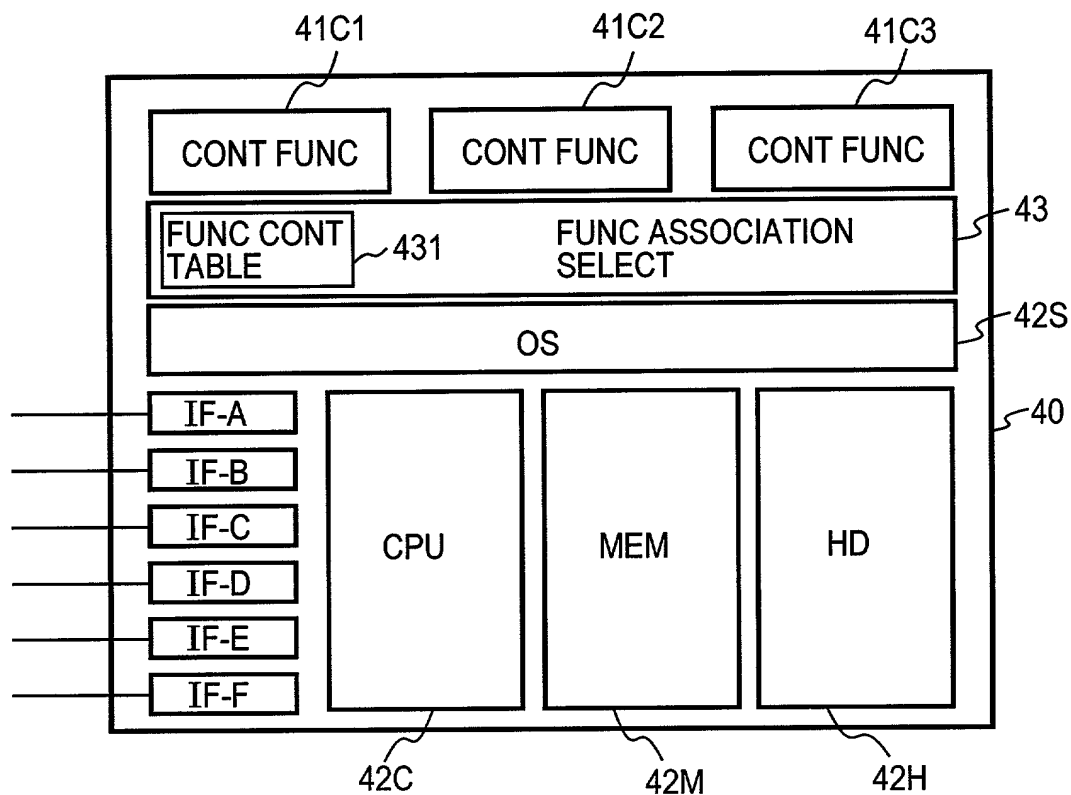


FIG. 13

